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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,843	10/18/2007	Tomoaki Hoshino	KUP-12	3086
20808 DDOWN & M	7590 10/04/201 ICHAELS DC	0	EXAM	INER
BROWN & MICHAELS, PC 400 M & T BANK BUILDING			SEHARASEYON, JEGATHEESAN	
118 NORTH T ITHACA, NY			ART UNIT	PAPER NUMBER
			1646	
			NOTIFICATION DATE 10/04/2010	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@bpmlegal.com brown@bpmlegal.com

Office Action Summary

Application No.	Applicant(s)	
10/591,843	HOSHINO ET AL.	
Examiner	Art Unit	
JEGATHEESAN SEHARASEYON	1646	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.

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tatus
Responsive to communication(s) filed on 24 August 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
isposition of Claims
4) Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.
pplication Papers
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(
riority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b Some * c None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage.
application from the International Bureau (PCT Rule 17.2(a)).

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date 6/25/08.

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application 6) Other: ____

* See the attached detailed Office action for a list of the certified copies not received.

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Art Unit: 1646

DETAILED ACTION

This Office Action is in response to Applicant's election of claim 1 of Group I without traverse. Applicant also has elected MMP-1 and MMP-9. Applicant has cancelled claims 2-6.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on 25 June 2008 are in compliance with the provisions of 37 CFR 1.97 and have been considered by the examiner. However, there are several references in foreign languages with the abstract translated in English. The Office has considered only the English abstract.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3a. Claim 1 is rejected as being vague and indefinite because Applicant is claiming the instant invention by its functional properties. It is unclear from which species the said protein was isolated. Applicant should particularly point out and distinctly claim the protease inhibitor by claiming structural characteristics associated with the protein (e.g. amino acid sequence, molecular weight, etc.). Application/Control Number: 10/591,843 Page 3

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4a. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Farina et al. (2001, IDS of 6/25/08).

Claim(s) is drawn to a protease inhibitor protein with redox activity.

Farina et al discloses Thioredoxin (TRX) a redox enzyme (protein) which is a protease inhibitor. Thioredoxin inhibits metalloproteinase (MMP-2) and other proteases. Absent evidence to the contrary Thioredoxin is expected to have protease activity against MMP-1. Therefore, Farian et al. anticipates the instant invention.

Conclusion

5. No claims are allowed.

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEGATHEESAN SEHARASEYON whose telephone number is (571)272-0892. The examiner can normally be reached on M-F: 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary B. Nickol, Ph. D can be reached on 571-272-0835. The fax phone Art Unit: 1646

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jegatheesan Seharaseyon/ Examiner, Art Unit 1646

JS 9/26/10